Avid Configuration Guidelines
HP Z200 Dual-Core i5 CPU Workstation
4 DIMM / No Embedded Firewire
Media Composer / NewsCutter

1.) HP Z200 AVID Qualified System Specification:

Z200 / AVID Qualified Operating System choices:

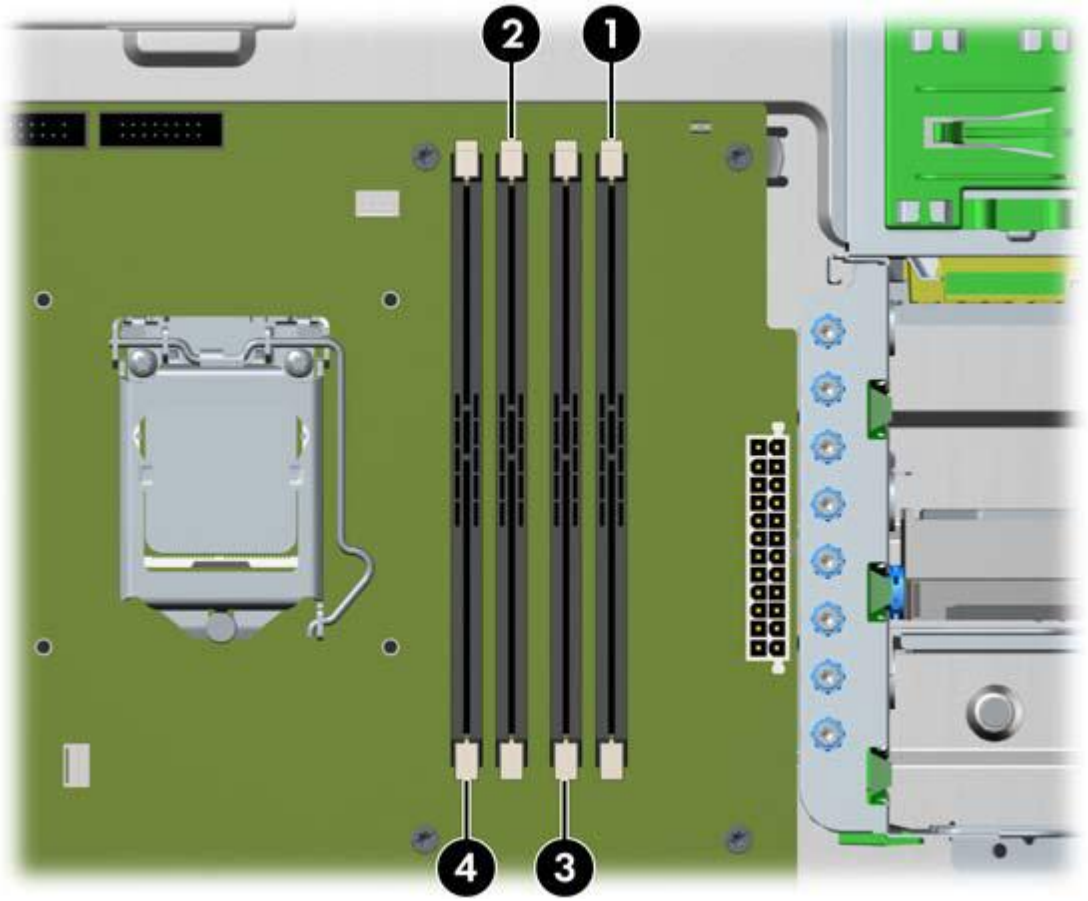
- Microsoft® Windows 7 Professional 64-bit Edition **(Requires minimum Media Composer 5.0 or NewsCutter 9.0).**

Z200 Hardware Configuration

CPU Choices

- Intel® Core™ i5-660 3.33 4MB/1333 DC CPU
- NVIDIA Quadro FX 600 1GB PCI-E video board
- 250GB SATA-II 3Gb/s 7200RPM Hard Disk Drive
- Memory: 4GB (2 x 2GB) DDR3 1333 ECC memory –
  (Requires two 2GB DIMMs, DIMM sizes cannot be mixed sizes)

Review the following to determine the correct installation order for DIMMs.



2.) Qualified Operating Systems for Avid Client Editing Applications, Hardware and Shared-Storage connectivity with the HP Z200:

- **Supported: Microsoft® Windows 7 Professional 64-bit Edition**

- **Not Supported - Microsoft® Windows XP 64-bit (any version)**
- **Not Supported - Microsoft® Windows Vista 32-bit (any version)**
- **Not Supported - Microsoft® Windows Vista 64-bit (any version)**
- **Not Supported - Microsoft® Windows 7 – any 32-bit version, or any version of Home, Ultimate or Enterprise editions.**

Note regarding Service packs: Latest Service Pack releases are recommended for all Avid qualified software releases for the Z200.

3.) Qualified Avid Editing Applications and Hardware Supported on the HP Z200 workstation:

	M/C v5.x N/C v9.x	Comments
Avid Media composer Software only	Yes	**M/C 5.0.3, 5.5.1 / NewsCutter 9.0.3, 9.5.1**
Matrox MX02 Mini	Yes	**M/C 5.0.3, 5.5.1 / NewsCutter 9.0.3, 9.5.1**
Unity ISIS 1 Gbit Ethernet Client	Yes	**Unity ISIS 5000 3.1 / 7000 2.3** EAC
Unity MediaNet Ethernet Client	Yes	**MediaNet 5.3** EAC
StarTech FireWire adapter PCI 3 external ports plus 1 internal	Yes	Primary 1394 connection for camera / deck / disk drive etc, (HBA has 3external 1394a ports). (1394 disk drives are recommended only for file transfers)

AVID qualified HBA info

AVID qualified HBA	AVID Part Number	Slot	Function
Matrox MX02 Mini PCI-E Interface HBA	Not stocked by AVID	#4	Matrox MX02 Mini interface (Part of Matrox MX02 Mini kit)
Atto H680	7030-30028-01	#4	Local Storage – VideoRAID SR
Atto R380	7030-20166-01	#4	Local Storage – VideoRAID ST
LSI 9200-8e SAS controller	7030-30036-01	#4	Local Storage- AIC Xtore StudioRAID 16Re, 5Te

1.) Slot Configuration:

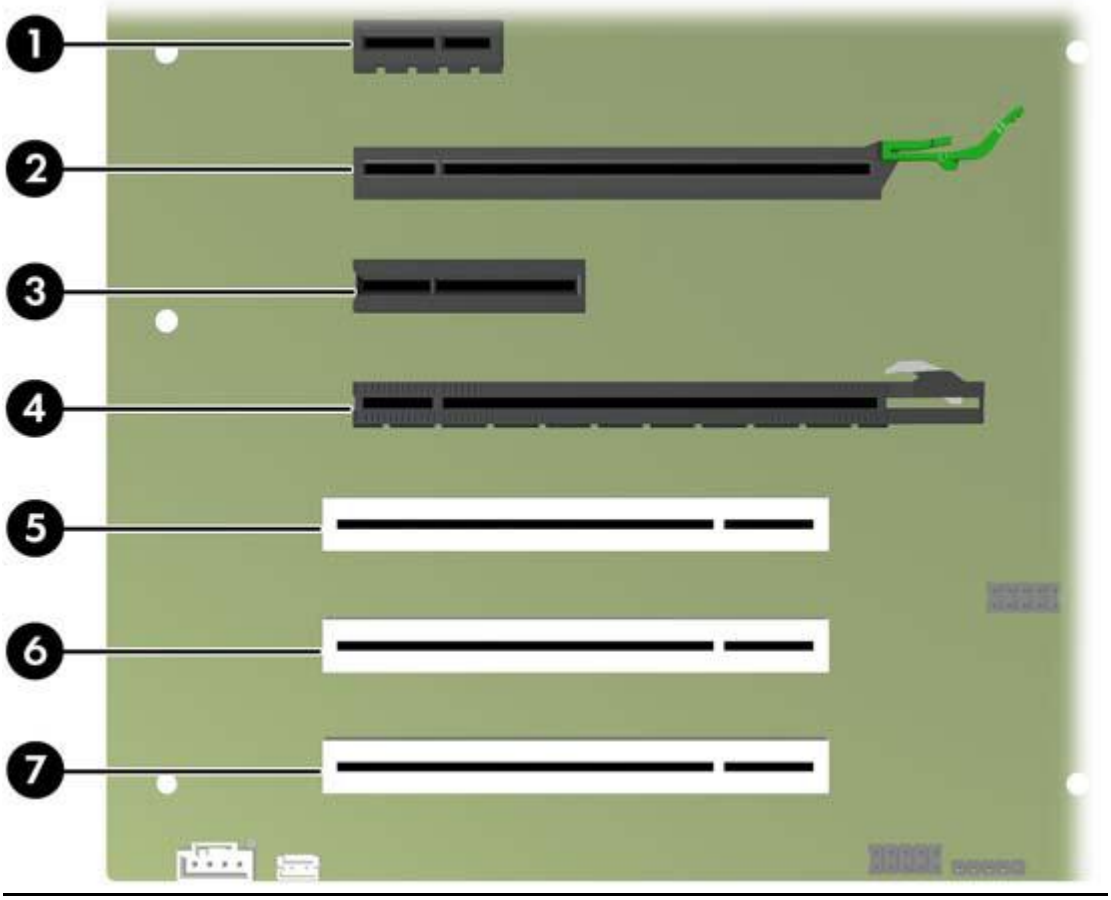
Slot #	Electrical	Mechanical	
1	x1 PCI-E Gen 1 (10Watts)	x1	*Not Used*
2	x16 PCI-E Gen 2 (75Watts)	x16	Video Card Nvidia Quadro FX 600
3	x1 PCI-E Gen 1 (10Watts)	x4	*Not Used*
4	x4 PCI-E Gen 2 (25Watts)	x16	Local Storage Controllers: Atto H680 - SAS VRII SR support Atto R380 - SAS VRII ST LSI 9200-8e SAS Xtore 5Te,16Re Support OR Matrox MX02 Mini PCI-E Interface HBA
5	PCI 32bit /33MHz	PCI 32/33	*Not Used*
6	PCI 32bit /33MHz	PCI 32/33	StarTech FireWire adapter PCI 3 external ports plus 1 internal (MFG#PCI1394MP)
7	PCI 32bit /33MHz	PCI 32/33	*Not Used*

*Current q*ualified PCI- 1394b Firewire card is:

1) StarTech FireWire adapter PCI 3 external ports plus 1 internal (MFG#PCI1394MP)

http://h30094.www3.hp.com/product.asp?sku=1846038&mfg_part=PCI1394MP&pagemode=ca

HP Z200 Slot Layout



A.) Qualified Avid system BIOS version(s): (As of this writing):

1.09 (Minimum BIOS version for Avid environments)

Required system BIOS settings:

Z200 Required system BIOS changes:

1. Set CPU Processors Hyper-Threading – **Enable**

During boot up press F10 at the HP splash screen to invoke Set Up.

-Select the Advanced tab
-Select Processors. <Enter>
-Select Hyper-Threading
-Default setting is Disable
  -Change this setting from Disable to Enable
-Hit F10 to save the Hyper-Threading setting
-Hit ESC select Save changes <enter> F10 to save and reboot

B.) Nvidia Qualified Drivers:

Nvidia qualified drivers

AVID Software	Version(s)	Nvidia Driver Required
Media Composer	5.0.3 and later	259.77
NewsCutter	9.0.3 and later	259.77

Note: Customers running 5.0.3 or 9.0.3 will have to pull driver 259.77 down from Avid's Knowledgebase.
After installation of the AVID software (5.5.1 or later) the supported Nvidia driver can be found in the following directory:
Program Files / Avid / Utilities / Nvidia or 64bit OS- Program Files (x86) / Avid / Utilities / Nvidia

The previously qualified 190.38 Nvidia driver released with previous versions of Avid editing applications does not support the new Fermi Series Quadro 600 video card used in the Z200 CPU.

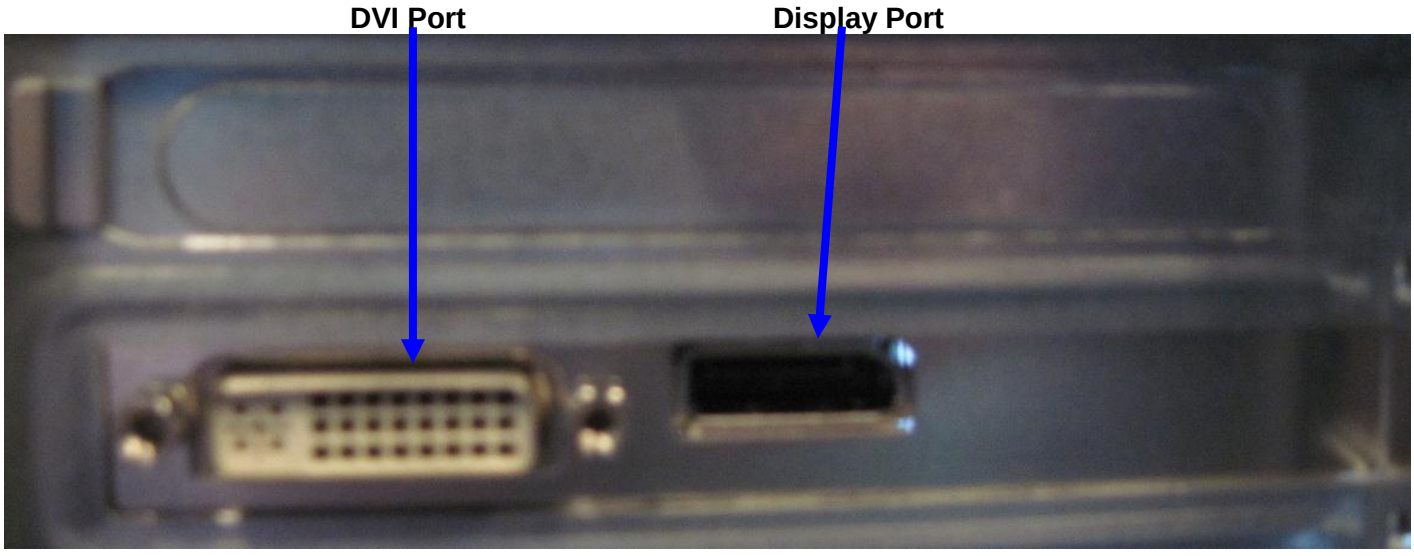
C.) Nvidia FX 600 monitor connectivity:

The new generation Nvidia FX 600 graphics card has a single DVI port and single Display-Port port
*(Important: Display-ports **are not** HDMI ports; at first glance they do look very similar to HDMI ports)*

The HP Z200 includes one Display-Port-to-DVI adapter. HP P/N 481409-001

For dual monitor connectivity:

1. Use the DVI port and one Display-Port (Display-Port connection can be native display-port to monitor via display-port connection, or use the display-port-to-DVI-adapter supplied with the system to connect to a native DVI monitor).



D.) Connecting to Analog VGA monitors and VGA switchers - Single and dual monitor connectivity:

Due to the large number of available types, AVID cannot guarantee functionality with older technology analog VGA monitors / switchers.

Recommendations are:

1. Use a passive DVI-to-VGA adapter on the FX 600 DVI port for the primary VGA connection

2. For a 2nd analog VGA connection, several manufacturer's offer active "Display-Port-to-VGA" adapters. Performance with these adapters may vary based on your particular model VGA monitors and switches.

3. "Display-Port-to-VGA" adapters are available from the following 3rd party manufacturer's:

   http://h10010.www1.hp.com/wwpc/us/en/sm/WF06c/A10-51210-64265-3965876-64265-3895841-3895842-3895844.html

   http://accessories.us.dell.com/sna/products/Cables/productdetail.aspx?c=us&l=en&cs=19&sku=330-4685

   http://www.siig.com/ViewProduct.aspx?pn=CB-DP0082-S1

E.) Serial Port Deck Control:

The HP Z200 workstation does not have an embedded serial port. Serial port deck control can be established via two methods (both of which have been qualified by Avid and will maintain frame accuracy in Avid environments)

1. Addenda model **RS-USB / 4** direct USB-to-RS422 serial adapter. This is a simple device which connects directly from a USB port of the Z200 directly to the RS422 port of a deck.
   http://www.addenda.com/addenda-elect/products/rsUSB4.php

2. Combination of a Keyspan (Tripp-Lite) Model USA-19HS USB-to-serial-port adapter with Addenda Rosetta Stone model RS – 2/8 RS232-to-RS422 converter

   - Keyspan (Tripp-Lite) Model USA-19HS (AVID P/N 7080-20013-01)
     http://www.tripplite.com/en/products/model.cfm?txtSeriesID=518&EID=13384&txtModelID=3914
   - Addenda Rosetta Stone (or equivalent) model RS – 2/8 RS232-to-RS422 converter (AVID P/N 7070-00507-01)
     http://www.addenda.com/addenda-elect/products/rs28.php

To connect the Keyspan 19HS / Addenda RS -2/8 combination:

- Install the Keyspan 19HS driver before plugging the device into a Z200 USB port.
- Once the keyspan 19HS driver is installed then plug the keyspan 19HS into a Z200 USB port.
- The keyspan 19HS will now show up in device driver.
- Using a serial cable, connect the 9-pin serial port of the Keyspan 19HS USB adapter to the port of the Addenda marked RS232 from PC
- Using a 2nd serial port cable connect the port of the Addenda marked "RS422 to VTR" to the deck control serial port of the deck.

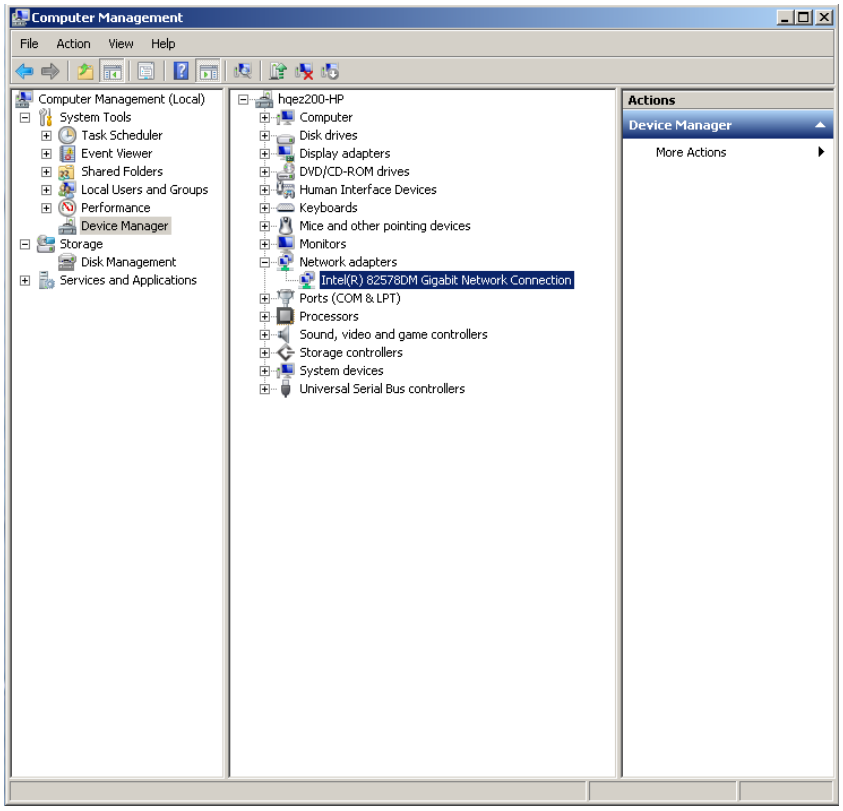
F.) **Intel(R) 82578DM for ISIS connectivity:** For proper operation and connectivity of the Intel(R) 82578DM Gigabit with ISIS the following are required:

For the Intel(R) 82578DM, under the performance settings, change the following parameters:

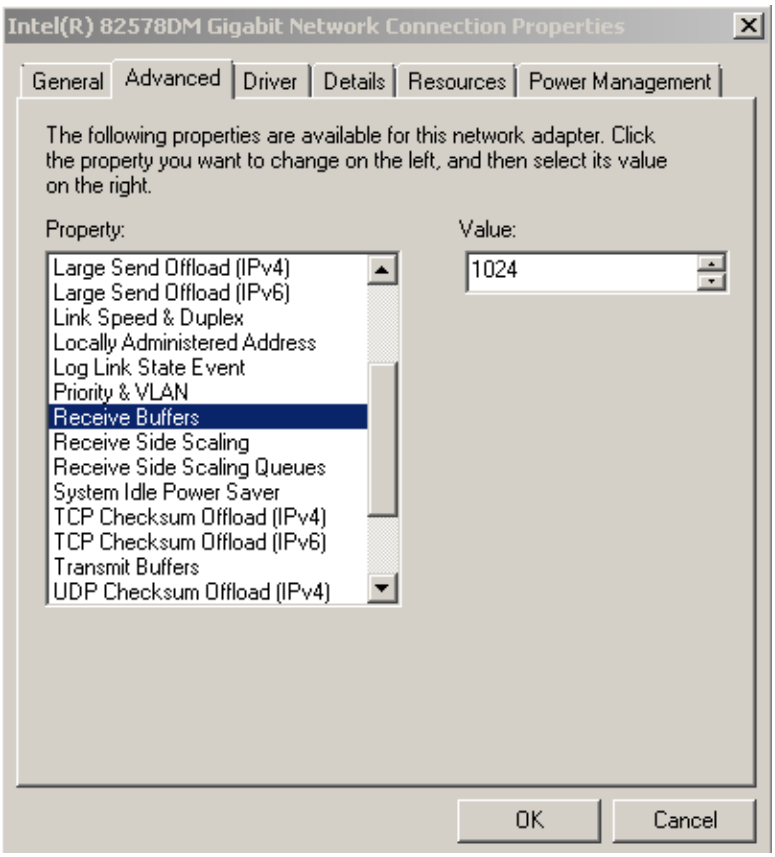
- Receive Buffers to 1024
- Transmit Buffers to 1024

To set the Intel(R) 82578DM Receive / Transmit buffers:

Go to device manager and select the device named Intel(R) 82578DM Gigabit Network connection which will be used for ISIS connectivity. Right click and select properties



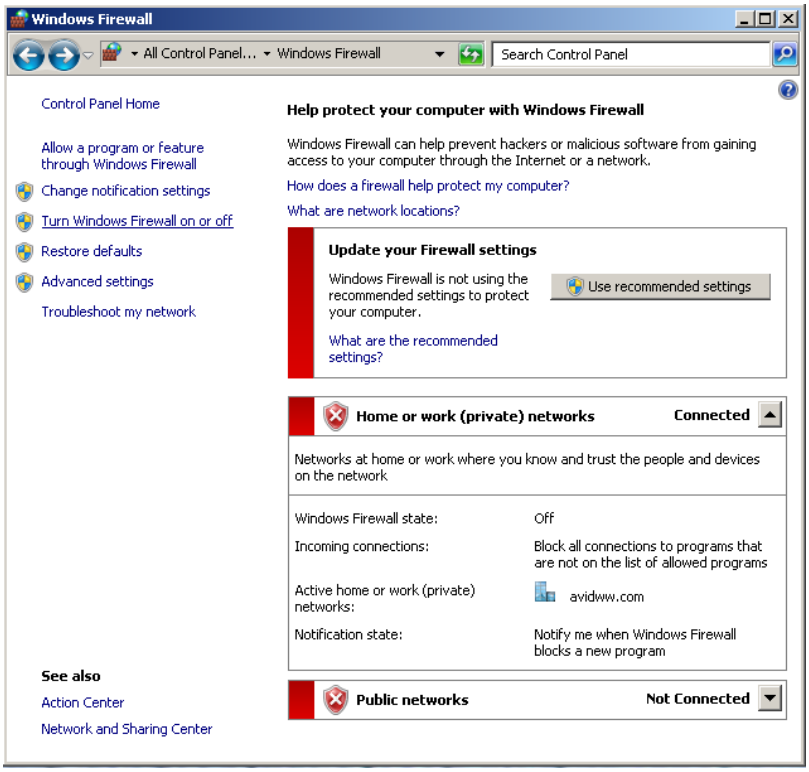
Select Advanced tab



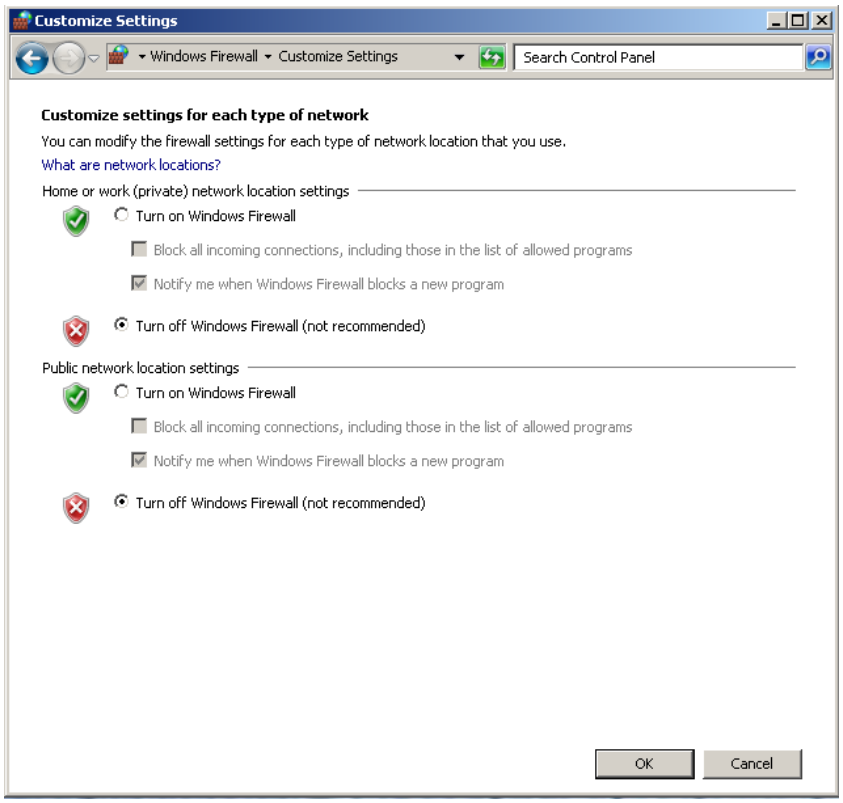
Set Receive Buffers to 1024 and Transmit Buffers to 1024

H. Disable the windows firewall:

Disable windows firewall: navigate to *Control Panel\Windows Firewall* -- Select Turn Windows Firewall on or off


Windows Firewall
All Control Panel... ▸ Windows Firewall
Search Control Panel
Control Panel Home
Allow a program or feature through Windows Firewall
Change notification settings
Turn Windows Firewall on or off
Restore defaults
Advanced settings
Troubleshoot my network
Help protect your computer with Windows Firewall
Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.
How does a firewall help protect my computer?
What are network locations?
Update your Firewall settings
Windows Firewall is not using the recommended settings to protect your computer.
Use recommended settings
What are the recommended settings?
Home or work (private) networks
Connected
Networks at home or work where you know and trust the people and devices on the network
Windows Firewall state:
Off
Incoming connections:
Block all connections to programs that are not on the list of allowed programs
Active home or work (private) networks:
avidww.com
Notification state:
Notify me when Windows Firewall blocks a new program
See also
Action Center
Network and Sharing Center
Public networks
Not Connected

Select Turn off windows firewall in both network locations, OK to save


Customize Settings
Windows Firewall ▸ Customize Settings
Search Control Panel
Customize settings for each type of network
You can modify the firewall settings for each type of network location that you use.
What are network locations?
Home or work (private) network location settings
Turn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
Turn off Windows Firewall (not recommended)
Public network location settings
Turn on Windows Firewall
Block all incoming connections, including those in the list of allowed programs
Notify me when Windows Firewall blocks a new program
Turn off Windows Firewall (not recommended)
OK
Cancel

Revision Update

Revision	Date	Name	Update
A	Nov.18	Mike Fortin	Initial Public Release
B	Jan 14	Mike Fortin	Added Biso setup
C	March 2	Mike Fortin	Removed PCI-e 1394 replaced with Star Tech PCI 1394a
D	March 15	Mike Fortin	Deleted Avid Hardware references cleaned up the configuration information.